

TASK ORDER REQUEST FOR PROPOSAL BASE YEAR 2005

for the National Resources Inventory (NRI)
NRI Site Imagery Project - Montana

Task Order Solicitation Number: TO-NRI05-3
AERIAL PHOTOGRAPHY SERVICES



U.S. DEPARTMENT OF AGRICULTURE
FARM SERVICE AGENCY
AERIAL PHOTOGRAPHY FIELD OFFICE

NOTICE TO OFFEROR

Proposals submitted in response to this RFP must be identified with the following information labeled on the outside of the mailing package:

SOL.NO: TO-NRI05-3
DUE DATE: 27-MAY-05, 4:30 PM
RECEIVING OFFICE: CONTRACTING

Mail To: AERIAL PHOTOGRAPHY FIELD OFFICE
CONTRACTING OFFICER
2222 WEST 2300 SOUTH
SALT LAKE CITY UTAH 84119-2020

NOTICE TO OFFERORS :

PLEASE NOTE THE FOLLOWING SPECIAL TASK ORDER INSTRUCTIONS:

This simplified task order RFP is for the Base Year, covering the 2005 performance period, under the multi-award fixed-price IDIQ contract established in the base year, 2005.

Task Order awards will be made based on procedures established in the original contract, Section L-3.

Contractors are required to respond to the task order statement of work covering terms of pricing and current performance capacities.

TASK ORDER REQUEST FOR PROPOSAL

**2005 NATIONAL RESOURCE INVENTORY (NRI)
PROGRAM - MONTANA**

1.0 2005 NRI AERIAL PHOTOGRAPHY SERVICES

Furnish aerial photography and scanning services and related supplies in accordance with the requirements, specifications, terms, conditions, clauses, and provisions specified herein and in the original indefinite-delivery, indefinite-quantity contract, effective for the periods stated in the schedule.

1.1 Task Order Pricing Proposal

In the spaces provided, please indicate your company's name and authorized signature, unit prices and extended total amounts for the Montana NRI Sites associated with this Task Order.

2005 NATIONAL RESOURCE INVENTORY (NRI), AERIAL PHOTOGRAPHY AND SCANNING OF NRI SAMPLE SITES LOCATED IN MONTANA			
COMPANY NAME:		AUTHORIZED SIGNATURE:	
TOTAL QUANTITY OF SITES	UNIT	UNIT PRICE	TOTAL AMOUNT
58	NRI SITE		
58	SCAN		

2.0 NATIONAL RESOURCE INVENTORY (NRI) PROGRAM

The general scope of this task order is to procure vertical, high resolution, natural color aerial photography and related scans for inventories of natural resources by the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS). The NRI imagery shall be used by NRCS to collect and measure natural resource data by means of photo interpretation and Geographic Information Systems (GIS) technologies. Within each sample, data is collected on land cover and use, soil erosion, prime farmland, wetlands, and characteristics of other natural resources.

2.1 Confidentiality Statement

Site locations of the National Resource Inventory (NRI) are “for official use only” and shall remain confidential. Site locations, represented in either hardcopy or digital form, are available exclusively for use by government authorized personnel conducting resource inventory activities or other authorized use. The Non-Disclosure Agreement provided as part of the TO-NRI05-1 Task Order shall apply to this Task Order.

2.2 Contract Deliverables

The deliverables for this Task Order consist of:

- (a) The original color positive film transparencies cut and sleeved.
- (b) Scanned TIFF (.tif) images

3.0 PROJECT REQUIREMENTS

3.1 Technical Requirements

- (a) Nominal Photographic Scales: Standard Nominal Scale of 1:7,920
- (b) Minimum Sun Angle: 30 Degrees
- (c) Aerial Camera: Nominal Lens Focal Length: 6 inch (153mm); Filter: Antivignetting
- (d) Aerial Film: Color Positive Aerial Film (Brand Names: Kodak Aerochrome III MS Film 2427, Agfa Aviphot Chrome 200 PEI, or equivalent).
- (e) Film Titling:
 - (1) Every exposure shall be titled in accordance with the format and instructions specified herein and in Section C-6 of the contract.
 - (2) Agency Designators: USDA-NRCS
 - (3) Site Identification Codes will be provided upon award.
 - (4) Automatic electronic titling may be permitted upon Contracting Officer's approval.
 - (5) The film may be titled either before or after being scanned.
- (f) Aerial Photography Scanning:
 - (1) Scanning Resolution: The original aerial film shall be scanned at 40 microns / 600 ‘dpi’ (pixels) per inch according to the specifications in the original contract (including Modifications 1 & 2.)
 - (2) Delivery Media: The delivery media shall be DVD-ROM(s).
 - (3) Scanning Accuracy: The Contractor is required to meet the scanning accuracy requirement value of two (2) (pixels) RMSE or less.
 - (4) Refer to Section C, Paragraph C-7 of the contract for scanning specifications.

3.2 Size of Sample Sites

All sites associated with this Task Order are the nominal size of approximately 160 acres (1/4 square mile).

3.3 Approximate Photographic Period: **June 15, 2005 through July 31, 2005.**

3.4 Project Flight Plan Description

- (a) All 58 Montana NRI Sites shall be flown at flight altitudes designed to achieve a nominal photographic scale of 1:7,920, with the nominal flight altitude above ground of 1,207 meters (3,960 feet) with a 6" focal length lens.
- (b) Deviation from the specified flight altitude shall not exceed 2% low or 3% high.
- (c) NRI Site Flight Requirements:
 - (1) Flight Orientation: North - South or East - West
 - (2) Allowable Horizontal Deviation from NRI Site Centroid: 109 meters (356 feet).
 - (3) The NRI Site Centroids shall be identified by latitude - longitude coordinates based on NAD 1983, and expressed in decimal degrees with five (5) decimal places of precision (31.50255, 87.10906).

4.0 GOVERNMENT-FURNISHED PROPERTY

Pursuant to the Government-Furnished Property (GFP) clause (see Section I-7) the Government shall furnish the item(s) of property listed below as GFP to the Contractor.

4.1 Exposure Data

The Contractor will be furnished upon award, one (1) data text file containing the official Exposure Data. The data file contains latitude/longitude coordinates and NRI site identification data. The following data shall be furnished by the government as represented by the following sample data set (not actual site locations):

State	County	Poly-id Number	Latitude	Longitude	Elev(Ft)	Acres	Base	Start	End	Ext
AL	Autauga	01035_040402R	32.38066	-86.66086	308	171.34	Jun 1-Jun 30	20050601	20050630	Early
CT	Hartford	09003_080402R	42.01980	-72.83128	446	102.62	Jul 1- Aug 15	20050701	20050815	
IN	Grant	18053_020102R	40.44244	-85.86891	846	159.69	Jul 1- Sep 30	20050701	20050930	Early
SC	York	45091_010101R	34.86437	-81.42939	499	158.52	May 15- Jul 31	20050515	20050731	Priority Early

5.0 2005 NRI DELIVERY SCHEDULE – FILM ACQUISITION

- 5.1 All delivery materials required for all original and USDA ordered reflight photography for a project shall be shipped as soon as completed but not later than 15 calendar days after the photographic season has ended, or any season extension thereof. The following delivery schedule shows the required shipping date, established 15 days from the end of the

photographic season. **The Photography Acquisition Dates for this Task Order are June 15 – July 31, 2005. The required date of shipment is August 16, 2005.**

- 5.2 It is recommended that all delivery materials be shipped 15 calendar days after the date complete photographic coverage has been obtained of a county. Prompt delivery of materials will better assure timely inspection.

6.0 DELIVERY SCHEDULE – SCANNED AERIAL PHOTOGRAPHY

Final Delivery Date for all scanned imagery shall be on or before November 30, 2005.

Partial deliveries are **encouraged** as the DVD(s) are filled. See Section D-1 of the original contract, PREPARATION OF MATERIALS FOR SHIPMENT, for instructions.

- 7.0 SCANNING ACCURACY: The Contractor is required to meet the scanning accuracy requirement value of two (2.0) (pixels) RMSE or less. The contractor shall provide a scanner calibration report that certifies the RMSE measurement (value) of the scanner(s) that is(are) used, both for the Stage and Geometric precision. The date of the report shall not be earlier than one year prior to the date of this modification. Two options are available to satisfy this requirement:

(a) Self Calibration:

- (1) Any scanner to be used for the scanning of aerial imagery must be calibrated using a calibrated glass plate. A minimum of 20 well distributed points should be read during the geometric accuracy test. These points shall cover the full area used to scan the aerial film. It is not acceptable to post process the scan data to achieve this requirement.
- (2) The calibration report should show the manufacturer's name, model number, serial number, date of calibration, individual readings of grid points, rotation of the sensor relative to stage alignment, calculated RMSE value for both the Stage and Geometric precision of the instrument, and the technician's name and signature.
- (3) The report must show that the scanner maintains a geometric accuracy of not more than five (5) microns RMSE at the scanner's plate scale.
- (4) The report must also show that the calibrated glass plate maintains an accuracy of not more than five (5) microns RMSE.

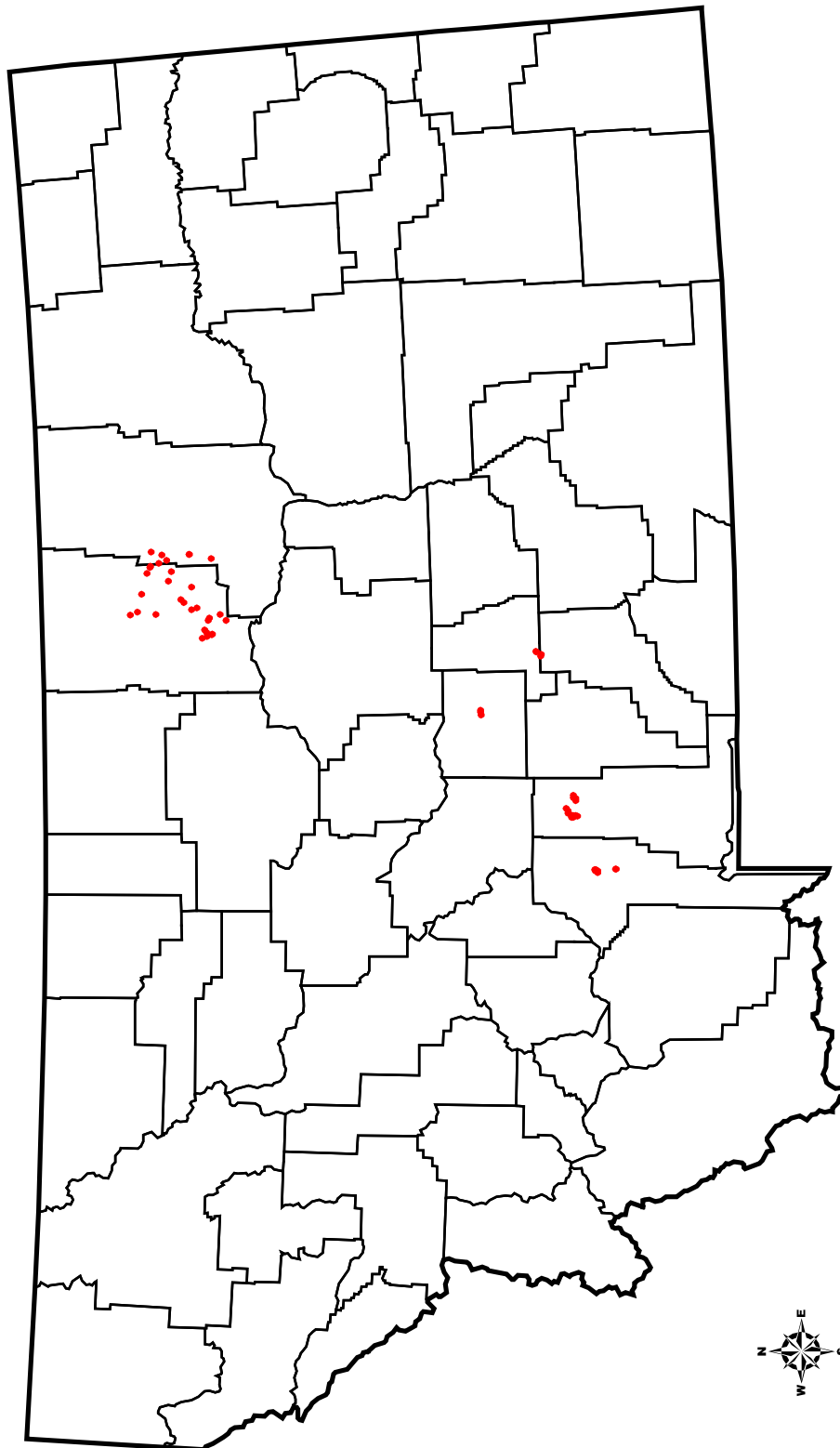
(b) Manufacturer Calibration:

- (1) Any scanner to be used for the scanning of aerial imagery shall be calibrated at least annually and a calibration report signed by the manufacturer's technician shall be provided.
- (2) The report must show that the scanner maintains a geometric accuracy of not more than five (5) microns RMSE at the scanner's plate scale, and be capable of resolving 256 levels of grey or of each color band. A minimum of 20 well distributed points shall be read on a calibrated glass grid plate of an accuracy of one micron or better during the geometric accuracy test. It is not acceptable to post process the scan data to achieve this requirement.
- (3) The calibration report shall show the manufacturer's name, model number, serial number, date of the calibration, individual readings of grid points, rectangularity, and calculated RMSE value for the instrument.

LIST OF ATTACHMENTS

EXHIBIT	DESCRIPTION	PAGE
Exhibit 1	Montana NRI Sites Map (1 page)	6
Exhibit 2	Current Equipment Lists and Conflicting Work (1 page)	7

Montana NRI Sites



Legend

- mphotos05_030105.txt Events
- new_mt
- montana_counties

USDA-FSA-APFO
Salt Lake City, Utah 84119

EXHIBIT 2CURRENT EQUIPMENT LIST AND CONFLICTING WORKINCOMPLETE CONTRACTS AS OF DATE OF PROPOSAL:

<i>Indicate by Linear Miles</i>	Remaining Work - Summer	Remaining Work - Winter
U.S. Government Contracts		
All Other Contracts		

AIRCRAFT TO BE USED IN COMPLETION OF ITEM(S) IN THIS TASK ORDER:

Make/Model	Registration #	Operating Ceiling	Bidder Owned (check appropriate block)
			<input type="checkbox"/> Yes <input type="checkbox"/> No *
			<input type="checkbox"/> Yes <input type="checkbox"/> No *
			<input type="checkbox"/> Yes <input type="checkbox"/> No *

* If the aircraft is/are not offeror owned, a written statement of availability from the owner of the aircraft must be enclosed. See Section C-2.

CAMERA(S) TO BE USED IN COMPLETION OF ITEM(S) IN THIS TASK ORDER:

Current calibration report(s) must be enclosed or on file at the Aerial Photography Field Office.

Make/Model	Lens Number	Magazine Number	Bidder Owned (check appropriate block)
			<input type="checkbox"/> Yes <input type="checkbox"/> No *
			<input type="checkbox"/> Yes <input type="checkbox"/> No *
			<input type="checkbox"/> Yes <input type="checkbox"/> No *

* If the camera(s) is/are not offeror owned, a written statement of availability from the owner(s) of the camera(s) must be enclosed. See Section C-2.